

GPS Calibration Report







Project : U3437

TIP Number	U-3437	Date & Time	11:13:19 AM 6/1/2011
User name	rgmiller	Zone	North Carolina 3200
Coordinate System	US State Plane 1983(at ground)	Geoid Model	GEOID99 (Conus) NC Sub Grid
Horizontal Datum	NAD 1983 (Conus)		
Vertical Datum			
Coordinate Units	US survey feet		
Distance Units	US survey feet		
Height Units	US survey feet		

LOCAL SITE INFORMATION

Localized around	
Latitude	35°51'06.72129"N
Longitude	81°29'35.26108"W
Site Scale Factor	1.0001262200
Height	1154.266sft

Contents

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 The linked image cannot be displayed. The file may have been moved, renamed, or deleted. Verify that the link points to the correct file and location.	Updated Default Projection Definition
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 The linked image cannot be displayed. The file may have been moved, renamed, or deleted. Verify that the link points to the correct file and location.	Vertical Adjustment Parameters
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 The linked image cannot be displayed. The file may have been moved, renamed, or deleted. Verify that the link points to the correct file and location.	Residual Differences Between GPS And Known Coordinates

Datum Transformation Parameters

Datum Transformation computation not requested

[Back to top](#)

Updated Default Projection (Transverse Mercator) Definition

Updated default projection not requested

[Back to top](#)

Horizontal Adjustment Parameters

Northing coordinate of rotation center	776173.213sft
Easting coordinate of rotation center	1267340.017sft
Rotation about the center point	0°00'00"
Translation north	0.003sft
Translation east	0.004sft
Scale factor	1.00000006

[Back to top](#)

Vertical Adjustment Parameters

Northing coordinate of origin point	775746.912sft
Easting coordinate of origin point	1258931.988sft
Vertical separation at origin	0.038sft
Slope north	0.723ppm
Slope east	0.509ppm

[Back to top](#)

Geoid Model Definition

GEOID99 (Conus) NC Sub Grid

[Back to top](#)

Residual Differences Between GPS And Known Coordinates

Summary					
		Maximum error	Root Mean Square error	Point	
Horizontal		0.013sft	0.002	HICKORY PORT_GPS	
Vertical		0.015sft	0.002	HICKORY PORT_GPS	
Three-dimensional		0.020sft	0.003	HICKORY PORT_GPS	

Point Residuals					
GPS point		Calculated point		Control point	
Point	U3437-1_GPS	Northing	775746.912sft	Point	U3437-1
Latitude	35°51'20.90921"N	Easting	1258931.988sft	Northing	775746.911sft
Longitude	81°30'03.95393"W	Elevation	1279.483sft	Easting	1258931.987sft
Height	1173.246sft	Horizontal error	0.002sft	Elevation	1279.481sft
		Vertical error	0.001sft	Type	Horz and Vert
		3D error	0.002sft	Point quality	Adjusted quality
Point	U3437-2_GPS	Northing	774946.526sft	Point	U3437-2
Latitude	35°51'13.10622"N	Easting	1259371.010sft	Northing	774946.526sft
Longitude	81°29'58.37798"W	Elevation	1282.309sft	Easting	1259371.009sft
Height	1176.075sft	Horizontal error	0.000sft	Elevation	1282.308sft
		Vertical error	0.001sft	Type	Horz and Vert
		3D error	0.001sft	Point quality	Adjusted quality
Point	U3437-3_GPS	Northing	774080.223sft	Point	U3437-3
Latitude	35°51'04.83132"N	Easting	1260533.067sft	Northing	774080.226sft
Longitude	81°29'44.00261"W	Elevation	1269.760sft	Easting	1260533.067sft
Height	1163.528sft	Horizontal error	0.003sft	Elevation	1269.760sft
		Vertical error	0.000sft	Type	Horz and Vert
		3D error	0.003sft	Point quality	Adjusted quality
Point	U3437-4_GPS	Northing	774253.199sft	Point	U3437-4
Latitude	35°51'06.72124"N	Easting	1261257.312sft	Northing	774253.200sft
Longitude	81°29'35.26113"W	Elevation	1260.464sft	Easting	1261257.312sft
Height	1154.228sft	Horizontal error	0.002sft	Elevation	1260.464sft
		Vertical error	0.000sft	Type	Horz and Vert
		3D error	0.002sft	Point quality	Adjusted quality
Point	U3437-5_GPS	Northing	776276.323sft	Point	U3437-5

Latitude	35°51'27.13399"N	Easting	1262921.481sft	Northing	776276.322sft
Longitude	81°29'15.66929"W	Elevation	1180.907sft	Easting	1262921.482sft
Height	1074.654sft	Horizontal error	0.001sft	Elevation	1180.907sft
		Vertical error	0.000sft	Type	Horz and Vert
		3D error	0.001sft	Point quality	Adjusted quality
Point	U3437-6_GPS	Northing	775746.066sft	Point	U3437-6
Latitude	35°51'22.06530"N	Easting	1263621.043sft	Northing	775746.064sft
Longitude	81°29'07.01284"W	Elevation	1187.428sft	Easting	1263621.044sft
Height	1081.175sft	Horizontal error	0.002sft	Elevation	1187.428sft
		Vertical error	0.000sft	Type	Horz and Vert
		3D error	0.002sft	Point quality	Adjusted quality
Point	P6_GPS	Northing	775958.217sft	Point	P6
Latitude	35°51'23.45804"N	Easting	1260780.522sft	Northing	775958.217sft
Longitude	81°29'41.57109"W	Elevation	1211.179sft	Easting	1260780.521sft
Height	1104.934sft	Horizontal error	0.001sft	Elevation	1211.178sft
		Vertical error	0.001sft	Type	Horz and Vert
		3D error	0.002sft	Point quality	Adjusted quality
Point	MORPORT_GPS	Northing	764694.893sft	Point	MORPORT
Latitude	35°49'23.34565"N	Easting	1226293.972sft	Northing	764694.887sft
Longitude	81°36'36.74641"W	Elevation	1252.751sft	Easting	1226293.972sft
Height	1146.723sft	Horizontal error	0.006sft	Elevation	1252.737sft
		Vertical error	0.014sft	Type	Horz and Vert
		3D error	0.015sft	Point quality	Control quality
Point	HAPPY_GPS	Northing	826765.363sft	Point	HAPPY
Latitude	35°59'41.21479"N	Easting	1242949.342sft	Northing	826765.363sft
Longitude	81°33'34.00965"W	Elevation	1230.393sft	Easting	1242949.338sft
Height	1124.382sft	Horizontal error	0.004sft	Elevation	1230.404sft
		Vertical error	0.011sft	Type	Horz and Vert
		3D error	0.012sft	Point quality	Control quality
Point	HICKORY PORT_GPS	Northing	733563.182sft	Point	HICKORY PORT
Latitude	35°44'31.86126"N	Easting	1291707.814sft	Northing	733563.195sft
Longitude	81°23'13.61523"W	Elevation	1170.196sft	Easting	1291707.813sft
Height	1064.465sft	Horizontal error	0.013sft	Elevation	1170.211sft
		Vertical error	0.015sft	Type	Horz and Vert
		3D error	0.020sft	Point quality	Control quality
Point	FAIR_GPS	Northing	785874.468sft	Point	FAIR
Latitude	35°53'22.84487"N	Easting	1352372.684sft	Northing	785874.461sft
Longitude	81°11'11.89836"W	Elevation	1171.659sft	Easting	1352372.689sft
Height	1065.004sft	Horizontal error	0.009sft	Elevation	1171.651sft
		Vertical error	0.008sft	Type	Horz and Vert
		3D error	0.012sft	Point quality	Control quality

[Back to top](#)